ABSTRACT OF THE DISCLOSURE

An assay includes catalytic hybridization of targets and cleavable probes to form triplexes and quadruplexes based on Watson-Crick bonding rules. The probes contain scissile linkages that are cleaved by enzymes when hybridized to a target, yielding detectable probe fragments free of the target. The target is recycled to help catalyze the cleavage of additional intact probes to form additional detectable probe fragments, thus amplifying the signal.

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